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MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

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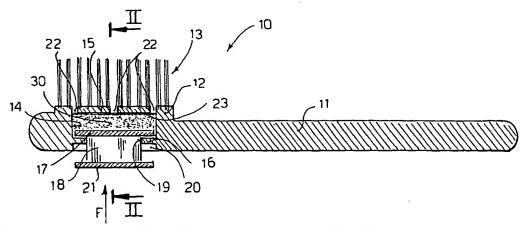
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- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
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(54) Title: IMPROVED TOOTHBRUSH



(57) Abstract: A toothbrush (10; 100; 200; 300) that includes a head (12; 312) supporting a set of bristles (13), a handle (11; 311) joint to the head (12; 312), a chamber (14; 114; 214; 314) made inside the head (12; 312) and/or inside the handle (11) and containing a dentifrice substance (30), at least one duct (22, 122, 222, 322) that communicates said chamber with the external face of the head (12; 312) supporting the set of bristles, and control means acting inside the chamber to push the dentifrice substance (30) so as to cause its discharge from the ducts to impregnate the set of bristles (13).

Ir atlonal Application No

	INTERNATIONAL SEARCH REPORT	PCT/EP 02/00634		
A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A46B11/00				
confine to	International Patent Classification (IPC) or to both national classification and IPC			
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PO-Int	ternal, WPI Data, PAJ			
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26/09/2002

Triantaphillou, P

Authorized officer

17 September 2002

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remational application No.
PCT/EP 02/00634

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This international Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable daims.
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
A. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-5

Toothbrush with chamber containing dentifrice and piston acting transversely to the brush's long axis for expelling the dentifrice to the bristles.

2. Claims: 1,6-11

Toothbrush with chamber containing dentifrice and piston acting along the brush's long axis for expelling the dentifrice to the bristles.

3. Claims: 1,12,13

Toothbrush with chamber containing dentifrice and flexible bulb whose flexible membrane side is squeesed for expelling the dentifrice to the bristles.

4. Claims: 1,14

Toothbrush with chamber containing dentifrice and device for expelling the dentifrice to the bristles with breakable membrane blocking the passage of the dentifrice.

5. Claims: 1,15

Toothbrush with chamber containing dentifrice and device for expelling the dentifrice to the bristles where the dentifrice is of swallowable composition.

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